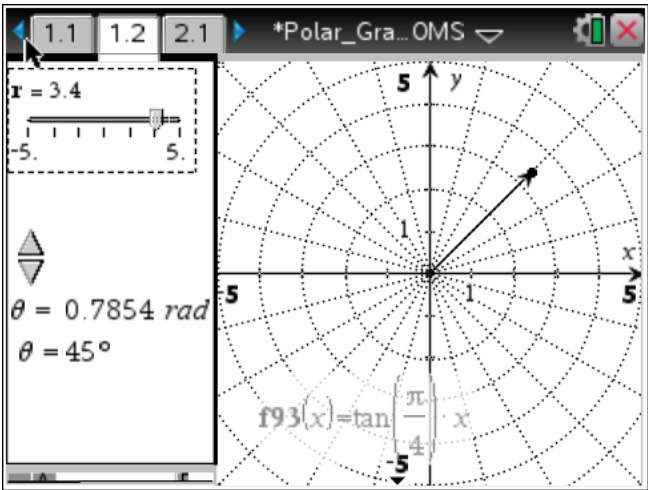
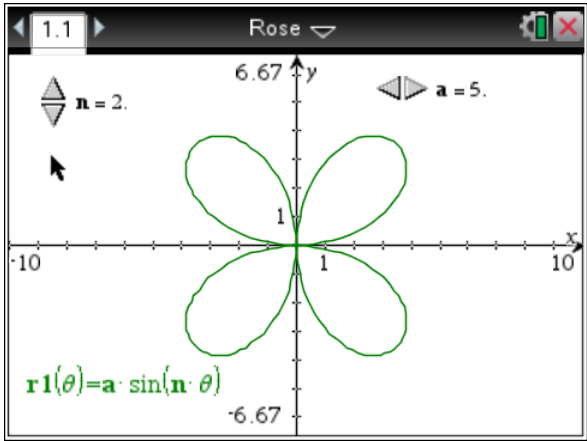


Polar Graphs



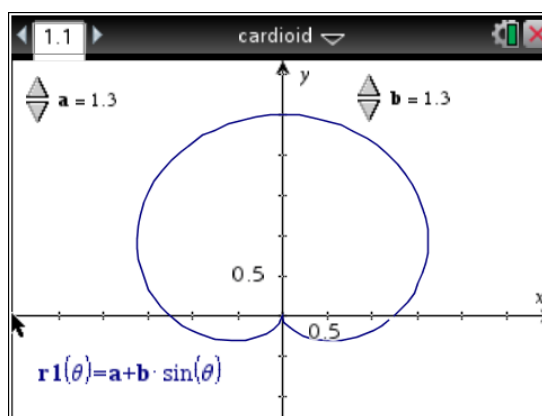
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Polar Graphs - Rose



Feb 21-2:42 PM

Cardioids



Feb 21-2:42 PM

Area inside polar graphs

Find the area of the region in the plane enclosed by the cardioid

$$r = 2(1 + \cos \theta)$$

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Find the area of the region that lies inside the circle $r=1$ and outside the cardioid $r = 1 - \cos \theta$

Feb 21-2:46 PM

Find the slope of the rose curve $r = 2 \sin (3\theta)$ at the point where $\theta = \pi/6$ and use it to find the equation of the tangent line. (calc ok)

Feb 21-2:50 PM